



EMMA
mouse repository



INFRAFRONTIER
mouse disease models

CNB-CSIC Mouse Embryo Cryopreservation Facility – Spanish EMMA node

GENOTYPING PROTOCOL

EMMA ID number	EM:05011
Mouse mutant strain	STOCK Myo7ash1/WtsiCnbc
Gene/Locus affected	Myo7a
MGI ID number	MGI:104510
Mouse strain common name	Shaker1
Owner/Provider of this mouse strain	Karen Steel
DNA primers for wild-type allele	Forward: 5'-CTGACAACCAGGAAGCACTG-3' Reverse: 5'-ATCGATGAGGGAGATGACG-3'
PCR conditions for wild-type allele	
DNA primers for mutant allele	
PCR conditions for mutant allele	Program: 1'94°;35x(30"95°,30"60°,30"72°);10'72° PCR product: bp
Source of genotyping information	Provider or PubMed ID: 13336002, 9435277, 9186010, 7870172, 6627025, 5795329, 14198707
Comments	Ear clips are lysed in Viagen lysis buffer. Add 100ul H2O to each sample after lysis. PCR is run as a simple PCR using Thermo Scientific Reddymix containing 1.5mM MgCl2. PCR product is sent for sequencing. These mice can also be genotyped by PCR followed by digestion with MspI. We found this to be unreliable at times and have developed a new genotyping tool in the sequencing listed above.